Silicone Ingredients For Custom Solutions.

Waukegan, IL | www.andisil-personal-care.com
Silicone Resins are essential for longer wear, wash-off resistance and film-forming benefits in skin care formulations.

### Resin Blends

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI NAME</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andisil® MQ 50C*</td>
<td>50% Resin</td>
<td>Cyclopentasiloxane (and) Trimethylsiloxysilicate</td>
</tr>
<tr>
<td>Andisil® MQ 2350</td>
<td>50% Resin</td>
<td>Dimethicone (and) Trimethylsiloxysilicate</td>
</tr>
<tr>
<td>Andisil® MQ 5230</td>
<td>50% Resin</td>
<td>Dimethicone (and) Trimethylsiloxysilicate</td>
</tr>
<tr>
<td>Andisil® MQ 5230</td>
<td>30% Resin</td>
<td>Dimethicone (and) Trimethylsiloxysilicate</td>
</tr>
<tr>
<td>Andisil® MQ 3250</td>
<td>30% Resin</td>
<td>Dimethicone (and) Trimethylsiloxysilicate</td>
</tr>
<tr>
<td>Andisil® MQ 3430</td>
<td>30% Resin</td>
<td>Phenyltrimethicone (and) Trimethylsiloxysilicate</td>
</tr>
</tbody>
</table>

*Percent resin content or carrier fluid can be customized to meet your specific formulation requirements.

### Emulsifiers

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI NAME</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andisil® SP 518</td>
<td>Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone</td>
<td>Recommended for W/O emulsions; reduces tackiness and greasiness in sun care and skin care formulations</td>
</tr>
<tr>
<td>Andisil® SP 518C</td>
<td>50% Concentrate</td>
<td>Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone</td>
</tr>
<tr>
<td>Andisil® SP 1001</td>
<td>Cetyl PEG/PPG-10/1 Dimethicone</td>
<td>Recommended as an emulsifier for W/O cream and lotion formulations and sun care protection; provides excellent stability and organic compatibility</td>
</tr>
<tr>
<td>Andisil® SP 2318</td>
<td>Dimethicone (and) PEG/PPG-18/18 Dimethicone</td>
<td>Cyclic free emulsifier for W/O and W/S emulsions</td>
</tr>
<tr>
<td>Andisil® SP 2319C</td>
<td>50% Concentrate</td>
<td>Dimethicone (and) PEG/PPG-18/18 Dimethicone</td>
</tr>
<tr>
<td>Andisil® SP 4409</td>
<td>PEG 9 Dimethicone</td>
<td>Recommended for use as a W/O or W/S emulsifier for skin care and make-up formulations</td>
</tr>
<tr>
<td>Andisil® SP 4412</td>
<td>PEG-12 Dimethicone</td>
<td>Recommended in skin care, sun care and make up formulations as a O/W emulsifier; improves aesthetics and reduces surface tension</td>
</tr>
<tr>
<td>Andisil® CP 2050</td>
<td>Cyclopentasiloxane (and) Dimethicone/PEG-10/15 Crosspolymer</td>
<td>Mixture of a dimethicone crosspolymer used in many W/O and W/S formulations to impart a soft, silky feel and provide a quick breaking effect; recommended for use in clear formulations</td>
</tr>
<tr>
<td>Andisil® CP 3020</td>
<td>Cyclopentasiloxane (and) Dimethicone/Polyglycerin-3 Crosspolymer</td>
<td>Mixture of a dimethicone crosspolymer used in many W/O and W/S formulations to impart a soft, silky feel and provide a quick breaking effect; recommended for use when PEG free formulations are required/desired</td>
</tr>
</tbody>
</table>

---

**Custom Capabilities & Blending**

- Silicones formulated to suit your needs
- Specialty silicone product line inspired by current market trends
- Custom blending capabilities offering ease of formulation and cost reduction
- Full range of cyclics, cyclic blends, dimethicones, and volatile linear fluids for the formulator
- Top quality service from synthesis to delivery
- US Manufacturer & Illinois-based warehousing resulting in minimal lead times
**Skin Care**

**Cyclic Siloxanes**
- **Andisil® D5**: Cyclopentasiloxane
  - Used as a delivery agent, most commonly used volatile carrier
- **Andisil® D6**: Cyclohexasiloxane
  - Silicone Carrier with improved spreading and longer playtime than Cyclopentasiloxane (D5)
- **Andisil® D56**: Cyclopentasiloxane (and) Cyclohexasiloxane
  - Blend of cyclic silicones to offer a different volatility profile.

**Linear Siloxanes**
- **Andisil® D5**: Cyclopentasiloxane
- **Andisil® D6**: Cyclohexasiloxane
  - Silicone Carrier with improved spreading and longer playtime than Cyclopentasiloxane (D5)

**Polyether Copolymers**
- **Andisil® SP 4410**: PEG-10 Dimethicone
  - Recommended for reduced skin irritation and water solubility; recommended for antiperspirants
- **Andisil® SP 1818**: PEG/PPG-18/18 Dimethicone
  - Recommended for applications that need a surface tension depressant and improved wetting properties
- **Andisil® SP 4414B**: Bis-PEG-12 Dimethicone
  - Recommended for skin care applications where lubricity, softness and conditioning are desired
- **Andisil® SP 4401B**: Bis-PEG-10 Dimethicone
  - Recommended for use with organic compounds to improve surface tension
- **Andisil® SP 4414**: PEG-12 Dimethicone
  - Provides softness and lubricity to lotions and creams; also used as a surface tension depressant. Improves foam stability and density when foaming is desired

**Wax**
- **Andisil® SW 1904**: Melting Point 36-42 °C
  - Bis-PES-18 Methyl Ether Dimethyl Silane
  - Recommended for hydrating formulations providing a smooth and soft feel; good organic compatibility; can provide thickening benefits to formulations where high viscosities are desired

**Dimethicones**
- **Andisil® SF - Low Visc. (5 - 200 cSt)**: Dimethicone
  - Recommended for light soft feel in day creams and sun care products
- **Andisil® SF - Med Visc. (250 - 5,000 cSt)**: Dimethicone
  - Recommended to add silky smoothness to formulations
- **Andisil® SF - High Visc. (10,000 - 600,000 cSt)**: Dimethicone
  - Recommended for heavier textures or when thicker film properties are desired

**Specialty Fluids**
- **Andisil® FS 105**: Trifluoropropyl Dimethicone
  - Recommended for oil repellency in color cosmetics; lowers surface tension in creams and lotions; low refractive index
- **Andisil® FSXL 4505**: Hydrogen Trifluoropropyl Dimethicone
  - Recommended for use as a surface treatment modifier for oil repellency in pigment coatings; low refractive index
- **Andisil® XL 11**: Hydrogen Dimethicone
  - Recommended for use as a surface treatment modifier in pigment coatings; reduces the hydrogen diffusion in formulation
- **Andisil® MH30**: Methicone
  - Recommended for use as a surface treatment modifier in pigment coatings

**Phenyl Modified Siloxane Fluids**
- **Andisil® PDM 1222**: Diphenyl Dimethicone
  - Recommended for anti-wrinkle cosmetics due to refractive index matching
- **Andisil® PDM 1443**: Diphenyl Dimethicone
  - Recommended for use in color cosmetics where increased refractive index is needed
- **Andisil® PTL 2450**: Hydrogen Diphenyl Dimethicone
  - Recommended for use as a surface treatment modifier in pigment coatings

**Hydration**
- **Andisil® SF - Low Visc. (5 - 200 cSt)**: Dimethicone
  - Recommended for light soft feel in day creams and sun care products
- **Andisil® SF - Med Visc. (250 - 5,000 cSt)**: Dimethicone
  - Recommended to add silky smoothness to formulations
- **Andisil® SF - High Visc. (10,000 - 600,000 cSt)**: Dimethicone
  - Recommended for heavier textures or when thicker film properties are desired

**Spreadability**
- **Andisil® SF - Low Visc. (5 - 200 cSt)**: Dimethicone
  - Recommended for light soft feel in day creams and sun care products
- **Andisil® SF - Med Visc. (250 - 5,000 cSt)**: Dimethicone
  - Recommended to add silky smoothness to formulations
- **Andisil® SF - High Visc. (10,000 - 600,000 cSt)**: Dimethicone
  - Recommended for heavier textures or when thicker film properties are desired

**Softness**
- **Andisil® SF - Low Visc. (5 - 200 cSt)**: Dimethicone
  - Recommended for light soft feel in day creams and sun care products
- **Andisil® SF - Med Visc. (250 - 5,000 cSt)**: Dimethicone
  - Recommended to add silky smoothness to formulations
- **Andisil® SF - High Visc. (10,000 - 600,000 cSt)**: Dimethicone
  - Recommended for heavier textures or when thicker film properties are desired

**Film Forming**
- **Andisil® SF - Low Visc. (5 - 200 cSt)**: Dimethicone
  - Recommended for light soft feel in day creams and sun care products
- **Andisil® SF - Med Visc. (250 - 5,000 cSt)**: Dimethicone
  - Recommended to add silky smoothness to formulations
- **Andisil® SF - High Visc. (10,000 - 600,000 cSt)**: Dimethicone
  - Recommended for heavier textures or when thicker film properties are desired

**Wax**
- **Andisil® SW 1904**: Melting Point 36-42 °C
  - Bis-PES-18 Methyl Ether Dimethyl Silane
  - Recommended for hydrating formulations providing a smooth and soft feel; good organic compatibility; can provide thickening benefits to formulations where high viscosities are desired

**In the hands of the formulator**
**Elastomer Blends**

Mixtures of a dimethicone crosspolymer and various carriers; used in many formulations to impart a soft, silky feel; provide a mattifying effect to the finished product and help improve formulation stability.

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI NAME</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andisil® CP 1020</td>
<td>Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer</td>
<td>Recommended for use as a thickener in the oil phase for a very thick consistency; matte finish</td>
</tr>
<tr>
<td>Andisil® CP 1030</td>
<td>Methyl Trimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer</td>
<td>Recommended for use as a thickener in the oil phase for a high cushion feel; matte finish</td>
</tr>
<tr>
<td>Andisil® CP 1050</td>
<td>Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer</td>
<td>Recommended for use in W/O, O/W, and non-aqueous emulsions for a clear, matte finish</td>
</tr>
</tbody>
</table>

**Gum Blends***

Combining volatile siloxanes with high MW gums provides excellent water resistance, long wear of actives on skin, and a unique skin feel.

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI NAME</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andisil® SF 1505</td>
<td>Cyclopentasiloxane (and) Dimethiconol</td>
<td>Recommended for emolliency in lotions and serums where cyclics are applicable. Added water resistance in sun care products</td>
</tr>
<tr>
<td>Andisil® SF 1605</td>
<td>Cyclohexasiloxane (and) Dimethiconol</td>
<td>Provides velvety feel in lotions and creams where cyclics are applicable</td>
</tr>
<tr>
<td>Andisil® SF 2205</td>
<td>Dimethicone (and) Dimethiconol</td>
<td>Recommended for smooth application and film forming properties in creams, lotions and serums</td>
</tr>
<tr>
<td>Andisil® SF 2305</td>
<td>Dimethicone (and) Dimethiconol</td>
<td>Recommended to improve texture and water resistance in sun care applications where cyclic siloxanes are not used</td>
</tr>
<tr>
<td>Andisil® SF 2505</td>
<td>Dimethicone (and) Dimethiconol</td>
<td>Recommended for creams where heavier texture is needed; longer lasting film forming benefits</td>
</tr>
<tr>
<td>Andisil® SF 3005</td>
<td>Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol</td>
<td>Recommended for longer play time applications; provides cascading volatility and strong film forming properties</td>
</tr>
</tbody>
</table>

*Percent gum and/or carrier fluid can be customized to meet your specific formulation requirements*

**Gum Blend Emulsions***

Provide ease of use in water-based skin care formulations; easy to use format.

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI NAME</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andisil® EM 1505CG</td>
<td>Cyclopentasiloxane (and) Dimethiconol (and) Laureth-23 (and) Laureth-4</td>
<td>Recommended for emolliency in lotions and serums where cyclics are applicable</td>
</tr>
<tr>
<td>Andisil® EM 1605CG</td>
<td>Cyclohexasiloxane (and) Dimethiconol (and) Laureth-23 (and) Laureth-4</td>
<td>Provides velvety feel in skin care where cyclics are applicable</td>
</tr>
<tr>
<td>Andisil® EM 2205CG</td>
<td>Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4</td>
<td>Recommended for smooth application and feel; non-cyclic blend</td>
</tr>
<tr>
<td>Andisil® EM 2305CG</td>
<td>Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4</td>
<td>Recommended to improve texture in sun care and creams</td>
</tr>
<tr>
<td>Andisil® EM 2505CG</td>
<td>Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4</td>
<td>Recommended for night creams and heavier textures</td>
</tr>
<tr>
<td>Andisil® EM 3005CG</td>
<td>Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol (and) Trideceth-6 (and) Trideceth-12 (and) Isodeceth-32</td>
<td>Recommended for cascading volatility and longer play times.</td>
</tr>
</tbody>
</table>

*Percent active silicone content can be customized to meet your specific formulation requirements*
### RESIN BLENDS
- Andisil® MQ 50C: Cyclopentasiloxane (and) Trimethylsiloxy silicate
- Andisil® MQ 2350: Dimethicone (and) Trimethylsiloxy silicate
- Andisil® MQ 5230: Dimethicone (and) Trimethylsiloxy silicate
- Andisil® MQ 3250: Phenyltrimethicone (and) Trimethylsiloxy silicate
- Andisil® MQ 3430: Phenylsilicone (and) Dimethicone (and) Trimethylsiloxy silicate

### SILICONE WAXES
- Andisil® SW 1894: Bis-PEG-18 Methyl Ether Dimethyl Silane

### GUM BLENDS
- Andisil® SF 1505: Cyclopentasiloxane (and) Dimethiconol
- Andisil® SF 1605: Cyclohexaosiloxane (and) Dimethiconol
- Andisil® SF 2205: Dimethicone (and) Dimethiconol
- Andisil® SF 2305: Dimethicone (and) Dimethiconol
- Andisil® SF 2505: Dimethicone (and) Dimethiconol
- Andisil® SF 3005: Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol

### GUM BLENDS EMULSIONS
- Andisil® EM 1505 CG: Cyclopentasiloxane (and) Dimethiconol (and) Laureth-23 (and) Laureth-4
- Andisil® EM 1605 CG: Cyclohexaosiloxane (and) Dimethiconol (and) Laureth-23 (and) Laureth-4
- Andisil® EM 2205 CG: Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4
- Andisil® EM 2305 CG: Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4
- Andisil® EM 2505 CG: Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4
- Andisil® EM 3005 CG: Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol

### PHENYL MODIFIED FLUIDS
- Andisil® PXL 2450: Hydrogen Diphenyl Dimethicone
- Andisil® PXL 2460: Hydrogen Dimethicone

### POLYETHER COPOLYMERS
- Andisil® SF 1818: PEG/PPG-18/18 Dimethicone
- Andisil® SF 4410: PEG-10 Dimethicone
- Andisil® SF 4410B: Bis-PEG-10 Dimethicone
- Andisil® SF 4414: Bis-PEG-12 Dimethicone
- Andisil® SF 4414B: PEG-12 Dimethicone

### LINEAR SILOXANES
- Andisil® SF 1: Trisiloxane
- Andisil® SF 2: Dimethicone
- Andisil® SF 3.5: Dimethicone

### CYCLIC SILOXANES
- Andisil® D5: Cyclopentasiloxane
- Andisil® D6: Cyclohexaosiloxane
- Andisil® D56: Cyclopentasiloxane (and) Cyclohexaosiloxane

### DIMETHICONES
- Andisil® SF Low Visc.: Dimethicone
- Andisil® SF Mid Visc.: Dimethicone
- Andisil® SF High Visc.: Dimethicone
Is D5 acceptable for use?  

- Yes  
- No

Andisil® SP 518  
Andisil® SP 518C  
Andisil® CP 2050  
Andisil® SP 2318  
Andisil® SP 2318C  
Andisil® SP 4409  
Andisil® SP 1001  
Andisil® CP 2050*

Elastomeric Properties Preferred?  

- Yes  
- No

Andisil® CP 3020*  
Andisil SP 2318  
Andisil SP 2318C  
Andisil® SP 4409  
Andisil® SP 1001

Water/Oil Emulsion  

Andisil® SP 4412

Silicone/Water Emulsion  

Andisil® SP 4412

Water/Silicone Emulsion  

Andisil® SP 518  
Andisil® SP 1001  
Andisil® CP 2050

PEG Free Emulsifier*  

Andisil® CP 3020

ELASTOMER BLENDS  

- Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer  
- Methyl Trimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer  
- Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer  

EMULSIFIERS  

- Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone  
- PEG-9 Dimethicone  
- PEG-12 Dimethicone  
- Cyclopentasiloxane (and) Dimethicone/PEG-10/15 Crosspolymer  
- Cyclopentasiloxane (and) Polyglycerin-3 Crosspolymer

APPLICATIONS  

- Antiperspirant / Deodorant  
- Cleansers  
- Creams  
- Color Cosmetics  
- Lotion  
- Serums  
- Sun Care  

BENEFITS  

- Cushion  
- Cyclic Alternative  
- Emulsifier  
- Film Forming Properties  
- Foam Stabilization  
- Long Wear  
- Lubrication  
- Moisturizing  
- Oil Repellency  
- Organic Compatibility  
- Skin Protectant  
- Spreadingability  
- Suitable For Clear Formulations  
- Suitable For Pigment Coatings  
- Tack Reduction  
- Transfer Resistance  
- Wash Off Resistance  
- Water Repellency  
- Wetting Agent  
- Water Solubility

Decision Tree: Emulsifiers

Water/Oil Emulsion  

Andisil® SP 4412

Is D5 acceptable for use?  

- Yes  
- No

Andisil® SP 2318  
Andisil® SP 2318C  
Andisil® SP 4409  
Andisil® SP 1001  
Andisil® CP 2050

Elastomeric Properties Preferred?  

- Yes  
- No

Andisil® SP 3020*  
Andisil SP 2318  
Andisil SP 2318C  
Andisil® SP 4409  
Andisil® SP 1001

Oil/Water Emulsion  

Andisil® SP 4412

Silicone/Water Emulsion  

Andisil® SP 4412

Water/Silicone Emulsion  

Andisil® SP 518  
Andisil® SP 1001  
Andisil® CP 2050

PEG Free Emulsifier*  

Andisil® CP 3020

Water/Oil Emulsion  | Emulsion with water as the internal phase and organic oil as the external phase  
Oil/Water | Emulsion with organic oil as the internal phase and water as the external phase  
Silicone/Water | Emulsion with silicone as the internal phase and water as the external phase  
Water/Silicone | Emulsion with water as the internal phase and silicone as the external phase  
Water/Oil/Water | Multiple emulsion with 3 phases, water in organic oil in water
WHO WE ARE

Under our brand, Andisil®, AB Specialty Silicones offers the personal care marketplace an extensive line of silicone based ingredients as well as the ability to custom formulate raw materials and blends to specifically suit your needs. Our technically trained, innovative team and global resources enable us to rapidly and efficiently deliver the latest in technology and product development. AB Specialty Silicones offers the highest degree of personal service and flexibility to meet each customer’s requirements.

Our Sales, Distribution, Manufacturing and Research & Development services are ISO 9001 certified.

HEADQUARTERS
3790 Sunset Avenue
Waukegan, IL 60087

CONTACT
Sales & Customer Service
(908) 376-1360

EMAIL
info@andisil-personal-care.com

WEBSITE
www.andisil-personal-care.com